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### NOTICE OF ALLOWANCE AND FEE(S) DUE

324

7590

06/10/2009

JoAnn Villamizar Ciba Corporation/Patent Department 540 White Plains Road P.O. Box 2005 Tarrytown, NY 10591

EXAMINER					
CORDRAY, DENNIS R					
ART UNIT	PAPER NUMBER				

1791

DATE MAILED: 06/10/2009

56/PCT

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,413	05/16/2005	Kenneth Sundberg	PR/3-23156/A/RAI	4017

TITLE OF INVENTION: PAPER SIZING COMPOSITION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

naintenance fee notificat	tions.	•					orrespondence address as ate "FEE ADDRESS" for domestic mailings of the
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JoAnn Villamiz			II	ereby certify that thi	is Fee(s	Transmittal is being	deposited with the United class mail in an envelope bove, or being facsimile
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540 White Plains P.O. Box 2005	s Road		tra	nsmitted to the USP.	FO (571	) 273-2885, on the dat	te indicated below.
Tarrytown, NY 1	10591						(Depositor's name)
raily to wii, ivi	10371						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
10/517,413	05/16/2005	_	Kenneth Sundberg		PR/	3-23156/A/RAI	4017
ITLE OF INVENTION	: PAPER SIZING COM	POSITION	_			56/PCT	
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	09/10/2009
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CORDRAY,	, DENNIS R	1791	162-158000	_			
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			registered attorney or agent) and the names of up to				
PTO/SB/47; Rev 03-0 Number is required.	2 or more recent) attach	ed. Use of a Customer	2 registered patent at listed, no name will b	orneys or agents. If i e printed.	no name	e is 3	
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PLEASE NOTE: Unl	less an assignee is identi	ified below, no assignee	data will appear on the	patent. If an assigne	ee is ide	entified below, the do	cument has been filed for
	•	oletion of this form is NO	· ·	· ·	.01737777	34K)	
(A) NAME OF ASSIC	GNEE		(B) RESIDENCE: (CIT	Y and STATE OR C	OUNTI	RY)	
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Issue Fee			A check is enclosed				
	No small entity discount p		Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - #	# of Copies		The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
. Change in Entity Stat	tus (from status indicated	d above)				,	
_ ` .	s SMALL ENTITY statu		☐ b. Applicant is no lo	nger claiming SMAI	L ENT	ITY status. See 37 CF	R 1.27(g)(2).
OTE: The Issue Fee and	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than Office.	the applicant; a regi	stered a	ttorney or agent; or the	assignee or other party in
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# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/517,413 05/16/2005		Kenneth Sundberg	PR/3-23156/A/RAI 56/PCT	4017	
324 7590 06/10/2009			EXAM	INER	
JoAnn Villamizar			CORDRAY,	DENNIS R	
Ciba Corporation/Patent Department			ART UNIT	PAPER NUMBER	
540 White Plains Road			1791		
P.O. Box 2005			DATE MAILED: 06/10/200	0	
Tarrytown, NY 10591			DATE WITHED. 00/10/2009		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/517,413	SUNDBERG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DENNIS CORDRAY	1791	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED ) or other appropriate com RIGHTS. This application i 3 and MPEP 1308.	in this application. If not included munication will be mailed in due course. <b>THI</b>	
1. This communication is responsive to the communication r	<u>eceived 3/11/2009</u> .		
2. ☑ The allowed claim(s) is/are <u>1, 5 and 10-20</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority units a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul>	e been received. e been received in Applica	tion No	e
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ile a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.		
(a) 🔲 including changes required by the Notice of Draftsper	son's Patent Drawing Rev	ew ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u> .		
<ul><li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li></ul>			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>			
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper N	Summary (PTO-413), o./Mail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. 🛛 Examine	's Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examine	's Statement of Reasons for Allowance	
o. Biological Material	9. 🔲 Other		
/Dennis Cordray/	/Eric Hug/		
Examiner, Art Unit 1791	Primary Exan	niner, Art Unit 1791	

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Shiela Loggins on 6/5/2009.

The application has been amended as follows:

SPECIFICATION:

On p 1 of the Specification below the title, the following has been entered:

--This application is a 371 of PCT/GB03/02534, filed 06/12/2003 which claims the benefit of British Application No. 0213424.5, filed 06/12/2002.--

**CLAIMS:** 

In Claim 12, the words "paper or sized" have been deleted and the words --sized paper or-- inserted therefor.

In Claim 15, the words "comprising paper or board and a sizing composition" have been deleted.

In Claim 17, the word "comprising" has been deleted and the word --comprises-inserted therefor.

Application/Control Number: 10/517,413 Page 3

Art Unit: 1791

### Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the nearest prior art, Fakoukakis et al, teaches an alkenyl succinic anhydride product (ASA) having substantially no polymeric residue and having residual maleic anhydride and olefins distilled off, but fails to teach the olefin content of the purified product. Ward et al teaches that the olefin content of ASA is typically reduced by distillation to less than 3% (US 2006/0231223, pp 3-4, pars 39-40). Another reference teaches that, after stripping, there is no detectable maleic anhydride and nominally 2% residual olefin (EPA publication 201-16228A, "Higher Alkenyl Succinic Anhydride (ASA) CATEGORY JUSTIFICATION and TEST PLAN," 2006, p 10, last paragraph [online], [retrieved on 2009-06-04], retrieved from the Internet <URL: http://www.epa.gov/hpv/pubs/summaries/hialksan/c16228tp.pdf>. An ASA having the claimed residual polymeric and residual olefin content is not taught in the prior art and would not have been obvious to one of ordinary skill in the art.

Regarding the sized paper or board in Claims 1, 10 and 14, the data provided in the Declaration by Dr. Sundberg on 4/7/2008 (see p 3, Table 4) show that the Cobb value of paper sized with ASA decreases with decreasing olefin content, thus demonstrating that reducing the olefin content changes the structure of the sized paper. Since the ASA having reduced olefin content is not disclosed or obvious over the cited prior art and the structure of the sized paper is a function of the olefin content, paper sized with the product would not have been obvious.

#### Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DENNIS CORDRAY whose telephone number is (571)272-8244. The examiner can normally be reached on M - F, 7:30 -4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/517,413 Page 5

Art Unit: 1791

/Dennis Cordray/ Examiner, Art Unit 1791

/Eric Hug/ Primary Examiner, Art Unit 1791